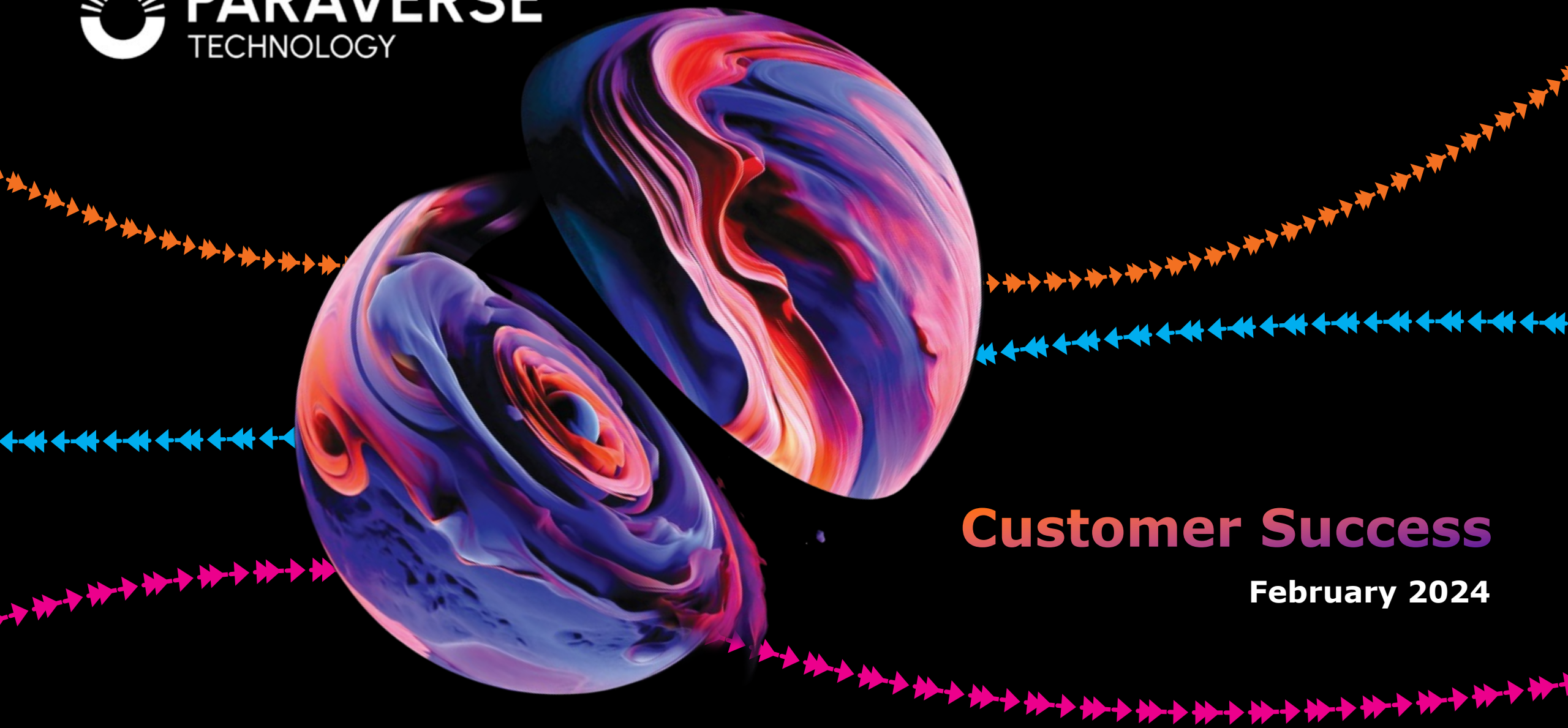
PARAVERSE
TECHNOLOGY



Customer Success

February 2024

DIGITAL PARALLEL WORLD

RECONSTRUCT THE 3D INTERNET IN THE WEB3 ERA

METAVERSE
VISUAL 3D SPACE

DECENTRALIZATION
TOKENOMICS CIRCULATION

UNIVERSAL COMPATIBILITY

3D XR EXCHANGING AS-A-SERVICE

CONTRIBUTOR

CO-CREATION

3D XR STREAMING AS-A-SERVICE

ADOPTER

ANY DEVICE / ANYWHERE

DIGITAL ASSET TRANSACTION & CIRCULATION

DECENTRALIZED REAL-TIME RENDERING NETWORK

Paraverse Partner Network

Igniting Ecosystem Growth

aws NVIDIA. intel. UNREAL ENGINE

Bring Your Own License Any Cloud IaaS

Full-stack Compatibility From GPUs to Endpoint Devices

Collaborative Opportunities

Network Expansion

Ecosystem Growth

Global Cloud Infra, GPUs, 5G Carriers, 3D Engines, XR Hardware Manufacturers, 3D/XR Developers

Paraverse Partner Network

Igniting Ecosystem Growth

AWS Startup Accelerator Program

LarkXR Launch in AWS MarketPlace

Achieved Multiple Enterprise-level Projects

NVIDIA Inception Program

Digital Twin New Engine Co-Launch LarkXR x Intel Arc

GMSA 5G IN Sector Program

3D Mainstream Engines Compatibility

Joint Announcement Lark 2.0 Product Launch

The Huawei Cloud Ecology Excellence Award Recognition

The XR Cloud Platform Co-Launch

The Aliyun Product Ecology Partner Award Recognition

The 2022 Cloud Innovation Award Recognition

Recognized by IDC MarketScape as China Real-Time Cloud Rendering Solution Provider

About Paraverse Technology

Founded In
2016

1K+
Enterprise Partners

15+
Industries Empowered

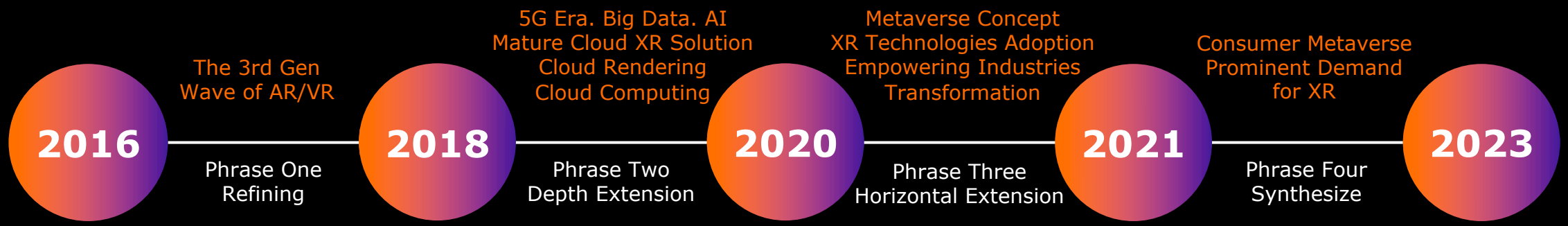
Cloud XR Pioneer
Decentralized Real-time Cloud Rendering Solution Commercialization

LarkXR
Enterprise-Level Decentralized Real-time Cloud Rendering PaaS Platform

Lark Network
Decentralized Rendering Network Based On Blockchain

Ecosystem Partnerships
AWS, NVIDIA, Intel, Unreal Engine

Our Journey



PingXingYun was established.

The **First Cloud XR Product** was launched, garnering industry recognition.

LarkXR 3.0 was launched, enabling XR enterprises and developers to build XR applications on the cloud

LarkXR became the most popular **Cloud XR Solution** by integrating industry expertise and empowering partners with secondary development capabilities.

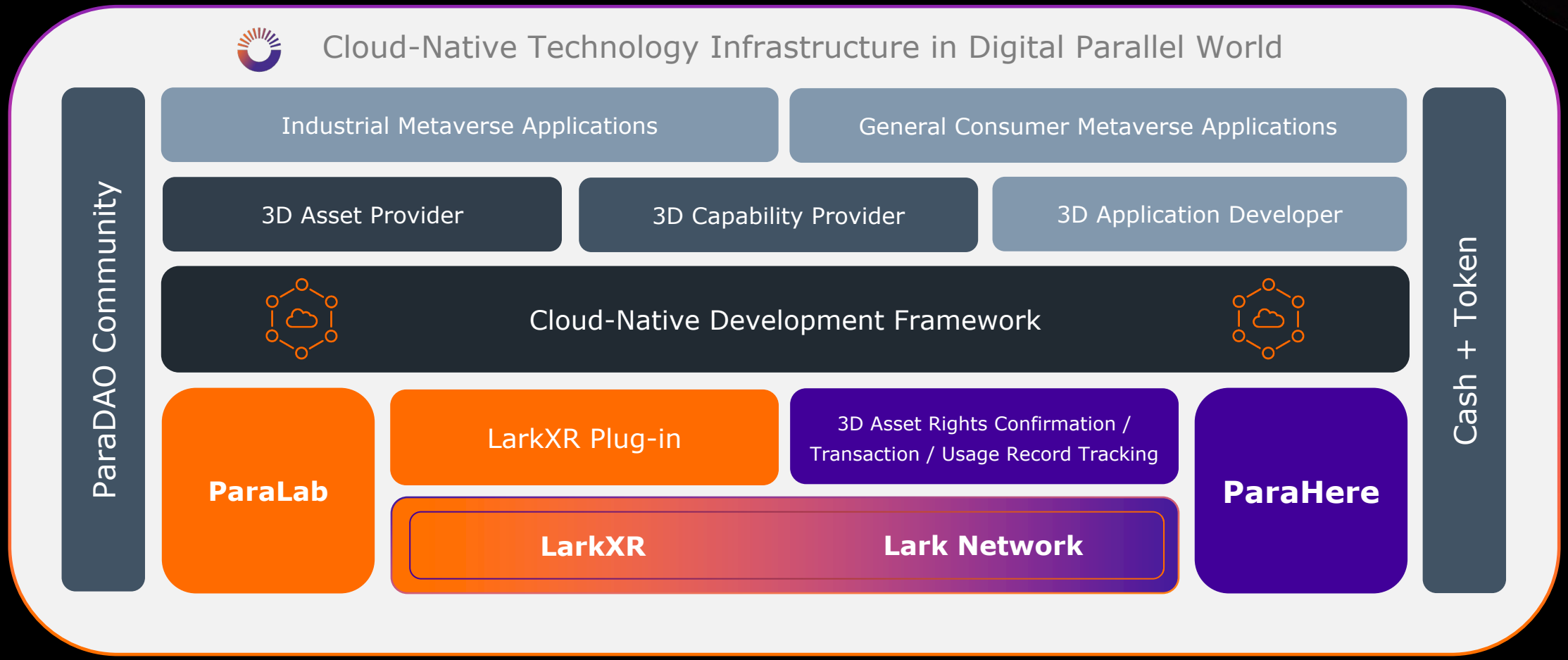
Paraverse Technology Ltd was established in Hong Kong as Asia Hub for Global Expansion

Brand Refresh from PingXingYun to Paraverse

Launched the first blockchain-based decentralized rendering network globally.

Product & Technology

Cloud-Native Technology Infrastructure



3D XR
STREAMING AS-A-SERVICE
ParaLab Decentralized Real-time
Cloud Rendering Platform
Built on LarkXR

A Decentralized Real-time Cloud Rendering Platform

ParaLab

LarkXR Cloud-Native Development Framework

LarkXR Plug-in

LarkXR Solution — Industrial Metaverse | General Consumer Metaverse Applications

Data Channel | Audio Channel | Video Channel | AI Voice

Live Streaming | Interactive Mode | VR Collaborative Model | Video Fusion

LarkXR API | LarkXR SDK

LarkXR

Athena	Hermes	Apollo	Gaea
Resourcing Pooling of GPUs for Visual Computing	Network Transmission System for Cloud XR	Cloud XR Client Access	Cloud XR PaaS Platform

Lark Nest	Lark Pub	Lark Network
GPU Server	GPU Edge Cloud Platform	Decentralized Rendering Network

Terminals

- 4K/8K
- AR
- VR
- Phone
- Pad
- Web

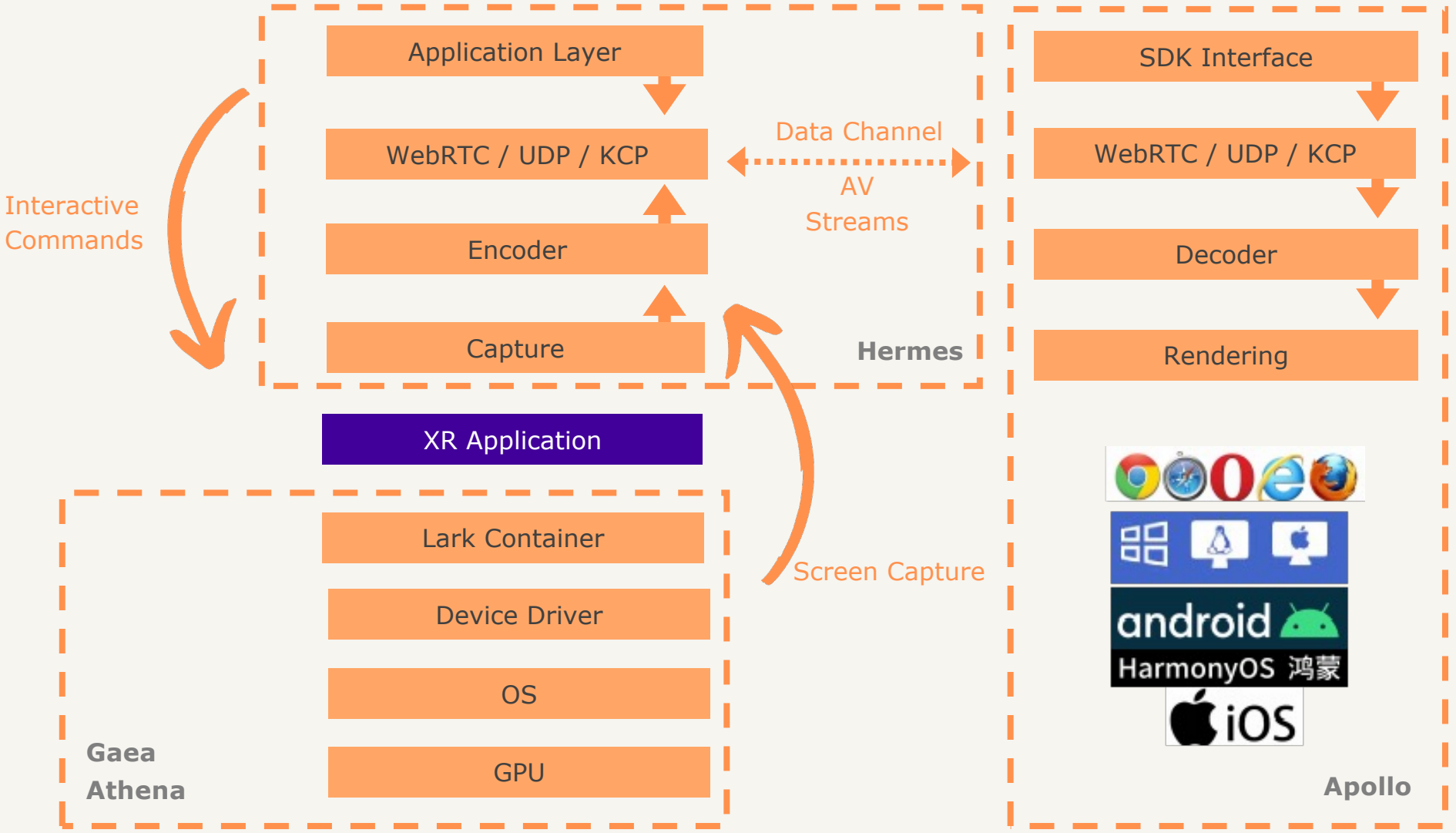
Edge Cloud & Dedicated Cloud Deployment Environments Close to Users

GPU Heterogeneous Computing Capability for Next-Gen Intelligent Applications

Cloud-Based Management / Operation Services Delivery and User Experience

Large-scale Computing Power To Fuel A Digital Economy & Application Ecosystem

LarkXR Technical Architecture



3D XR STREAMING AS-A-SERVICE

Multi-GPU
Resource Pooling

Ultra-Low
<30ms Latency
Dynamic Bitrate

No-Code
Deployment

Browser
Native H265
Efficient Decoding

Universal
Compatibility
Multi-Engine

High Concurrency
20K+ Sessions

Full Stack
Repository
Rich API / SDK
2nd Devt

50M+ Mins of
Stable Operation

Customer Success

Education and Training: Higher Education, Vocational Education, Corporate Training, K12, Military Simulation...

Digital Twin: Smart City, Urban Design, Aerospace, Maritime, Railways and Highways, Industrial Manufacturing, Utilities, IoT, Healthcare...

Architectural BIM: 3D GIS, Architectural BIM...

Gaming: Cloud Games, Multi-User Interactive Space Design, VR Offline Reta Stores...

Exhibition Display: 3D Virtual Space Design, NFT, Product Visualization (Property / Car Show), 3D Visual Marketing...

AI-Powered Digital Human: Virtual Idols, Conversational AI Customer Service, AI Teacher, Virtual Live Broadcast...

Live Entertainment and Event: Metaverse Conferences / Forums/ Exhibitions, Cloud events, Virtual Concerts…

and more...

Education | Higher Education

5G+Ultra-Long-Range Virtual Simulation Experiment

The China MOOC Conference 2019

The Ministry of Education of the People's Republic of China

教育部司局函件

感谢信

平行云科技（北京）有限公司：

为贯彻落实全国教育大会精神，落实新时代全国高等学校本科教育工作会议要求，展示中国慕课的建设与应用成果，在我司的指导下，由你单位提供支持的“中国慕课大会”得到了与会领导和参会代表的高度评价，在社会上引起了强烈的反响，取得了圆满成功，在此，感谢你单位的大力支持，并谨向你单位参与本次大会工作的全体人员致以诚挚的谢意！

让我们携手共进，面向未来，共同致力于建设中国慕课的公平之路、共享之路、服务之路、创新之路、合作之路，深入推进教育理念、教学内容、教育教学模式与方法的深刻变革，发展更加公平更有质量的教育。

2019

Source: The 6th China MOOC Conference 2019

Education & Training | Higher Education

The Virtual Simulation Experiment Cloud Platform

Virtual Simulation Course All In One Machine

清華大學 Tsinghua University

Education & Training | Higher Education

Virtual Simulation Experimental Teaching Platform

365 VR Teaching Cloud Classroom

Education & Training | Vocational Education

All-in-One Desktop Virtual Reality Teaching Platform

- ✓ Developed Engineered Cloud Platform and Tools Suitable for Mechanical Engineering, Electrical Engineering, Automotive, Rail Transportation, and Other Professional Curriculum Resources
- ✓ Met the Needs of Vocational Colleges, Universities, and Applied Undergraduate Colleges
- ✓ Empowered Teachers for Systematic Virtual Simulation & Interactive 3D/XR Teaching Resource Development

KMAX 科骏

Education & Training | 5G+Cloud Smart Campus

Established 5G Scale Networking Construction and Application Demonstration Project

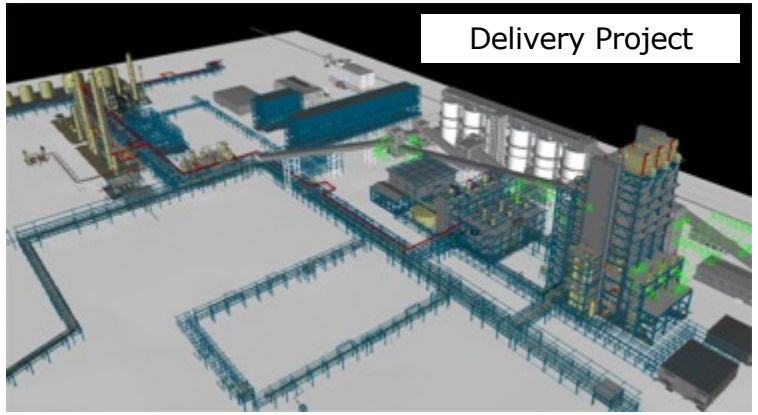
5G + Cloud VR Classroom Solution In Education

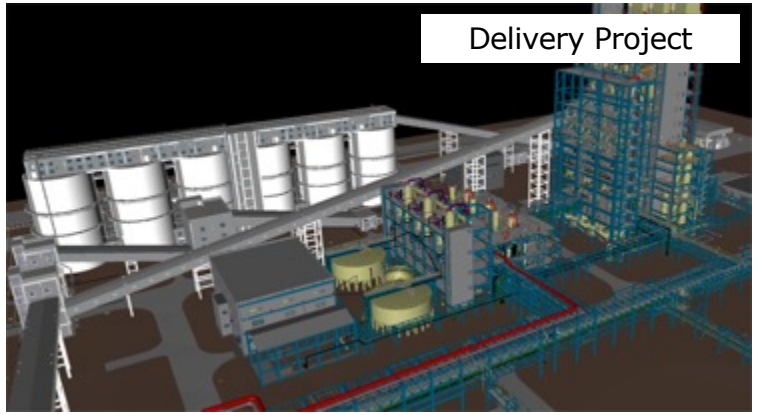
- ✓ Integrated Central Nodes and Edge Computing Cloud
- ✓ Developed AR Immersive & Interactive Teaching Solution
- ✓ Created XR Realtime Interactive Teaching Scenarios for Smart Campuses In the 5G Era

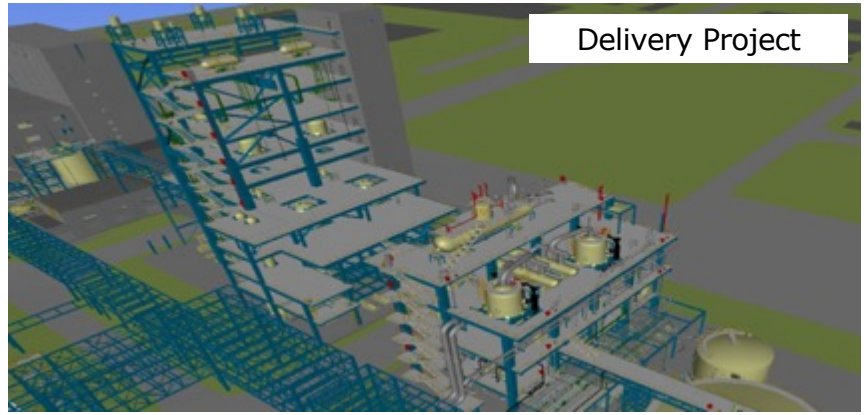
Digital Twin in Smart Manufacturing

3D Model Based Digital Twin PaaS System

- ✓ Developed **a Smart Factory Platform** applicable to the chemical, power, and steel industries
- ✓ Equipped with flexible multi-dimensional visualization components, comprehensive Digital Twin building tools, rich data and communication interfaces, and an open system architecture.





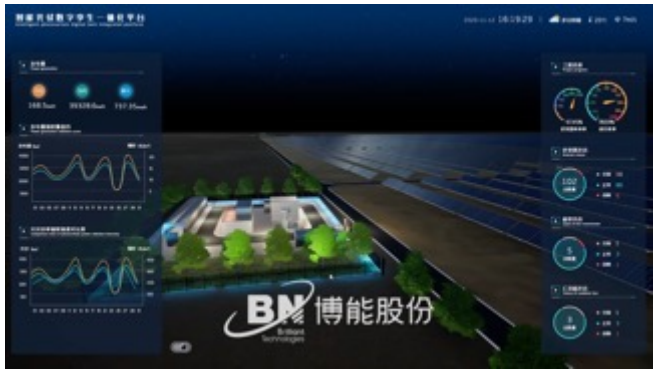


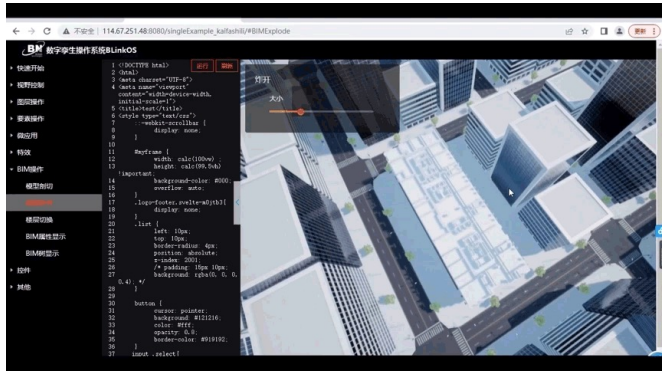
强思数科
Chance Digital Science & Technology

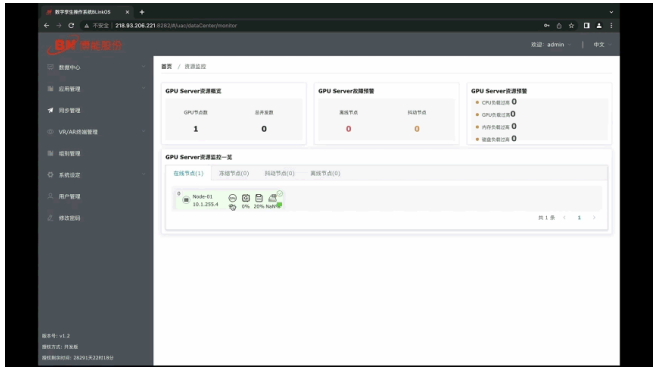
Digital Twin in Infrastructure & Cities

Digital Twin Technology and Operating System

Aerospace and Aviation Transportation | Water Utilities | Energy Grid | Intelligent Cities







博能股份

Digital Twin in Smart City and Urban Design

OurBIM BIM Cloud Engine Platform

万间
VanJian.com

Digital Twin in Manufacturing

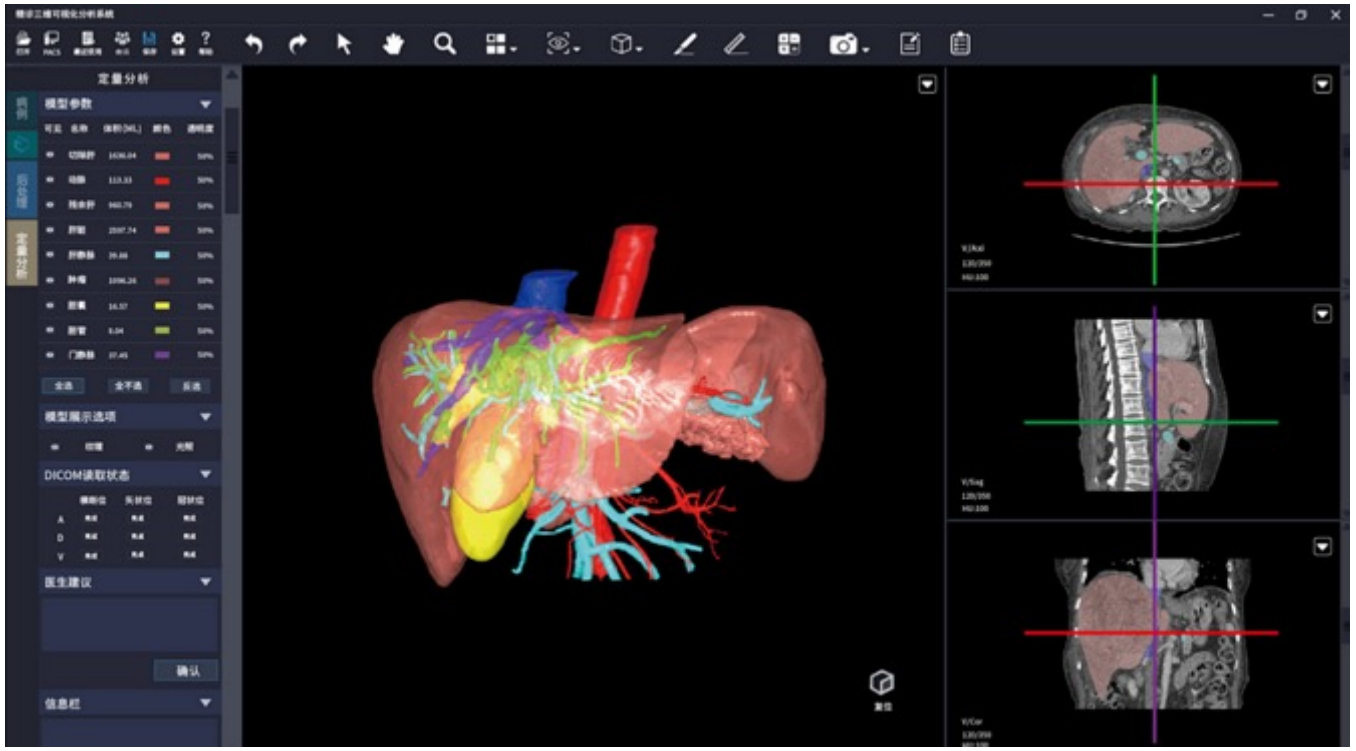
Industrial Manufacturing XR PaaS Platform

- ✓ Transitioned design collaboration to the cloud
- ✓ Improved platform usability and integrated online and offline operations
- ✓ Streamlined sales & service processes and created impactful minimalist marketing model

朗迪锋 LONGTEK

3D Medical Visualization | Healthcare

"True 3D, Interactive, Highly Immersive" Cloud-based Virtual Simulation

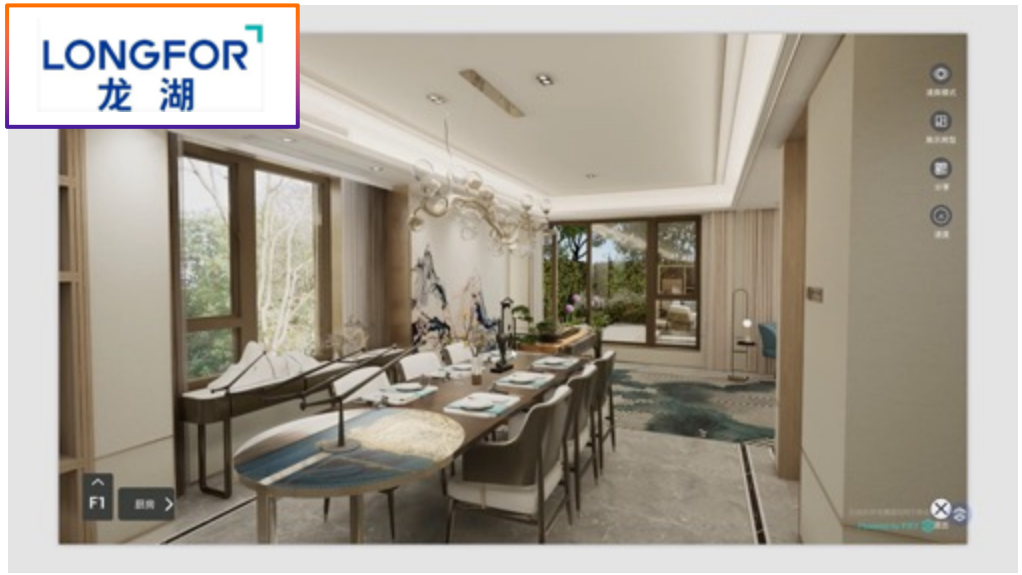


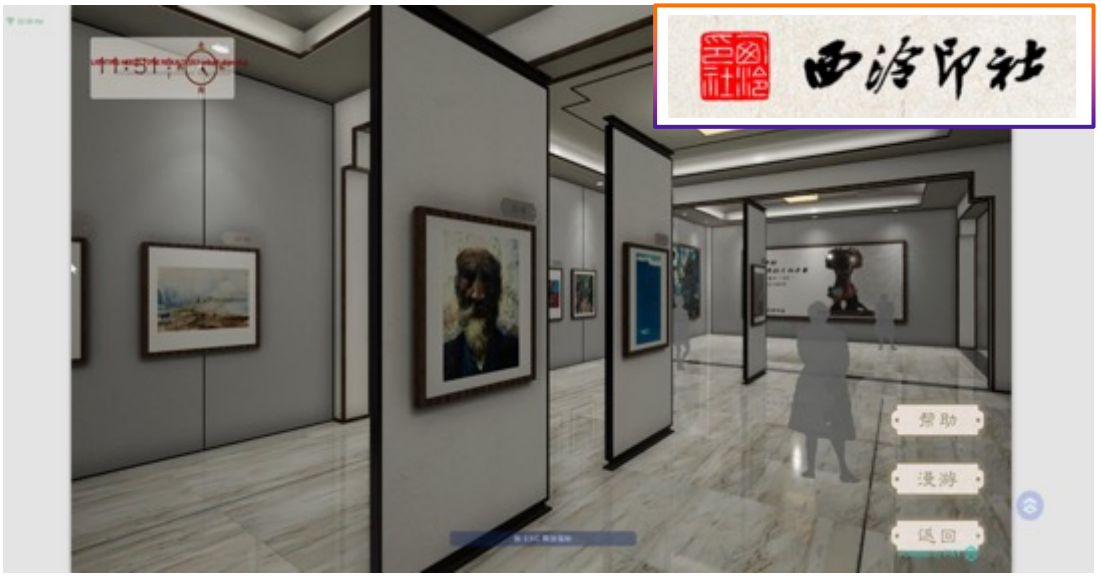
- ✓ Aligned with IoT digitization and cloudification trends in the medical and healthcare industry.
- ✓ Enabled Rapid deployment, large-scale cloud resources, and enhanced user experience.
- ✓ Ensured high compatibility with mainstream XR engines and provided flexible support for various interaction and immersion modes.
- ✓ Enabled smooth operation, usage, and dissemination of medical applications across various devices.

Exhibition Display | 3D Virtual Space Design

Cross Platform SaaS - Real Estate / Exhibition Hall / 3D Marketing Scenes

- ✓ Real-time cloud rendering of high-fidelity 3D scenes
- ✓ Lightweight, visual, and interactive virtualization of marketing scenes.
- ✓ Enabled Liberation of end-user devices through B/S architecture usage scenarios across large screens, computers, phones, and tablets, promoting lightweight, on-demand, and collaborative interactions.





Metaverse in eCommerce & Marketing

Tmall x NetEase Cloud Music Metaverse “Cloud Party”

Taobao Double 11 Virtual Shopping Carnival eCommerce

- ✓ Unlocked virtual scenes and theme playlist with avatars, interactive games within virtual space
- ✓ Offer an immersive 3D real-time interactive experience
- ✓ Over 360,000 participants joined the week-long event

Digital Entertainment x Consumer Marketing

"2060 Vowelland” Alimama's Metaverse Music Feast

“Mantavos” New-Gen Consumer Experience

- ✓ Hyper-realistic digital idols at AR live stage
- ✓ Unprecedented shopping & interactive experience
- ✓ Over 10,000 participants engaged in the immersive metaverse music concert

阿里妈妈 江苏卫视

Pan-Entertainment Virtual Space

網易 NEWS 网易新闻

bitsrealm 彼方城

Heineken SOUNDSCAPE

Metaverse Gala Event

Retaland x Samsung, The First Metaverse China New Year's Eve Gala

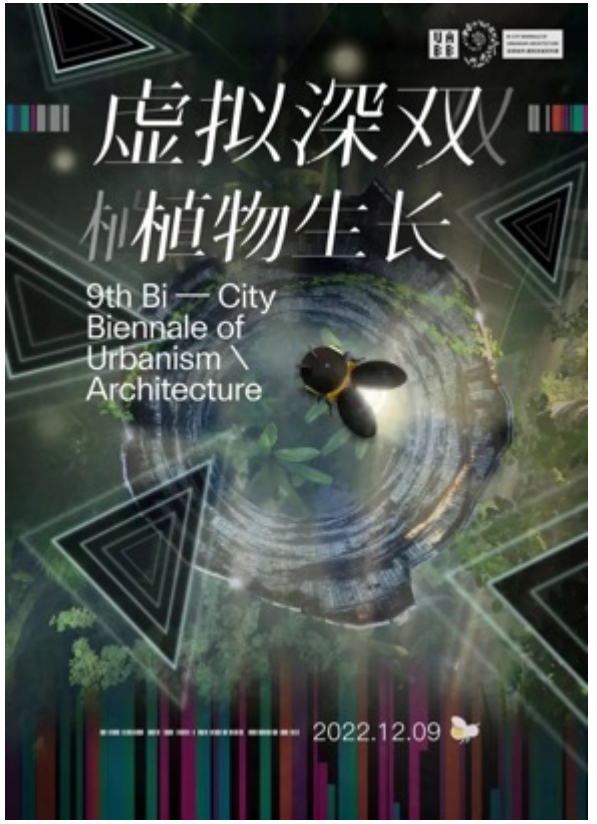
- ✓ Attracted nearly 10 million viewers and peaking at 3000 simultaneous online participants, with over 200,000 interactive engagements.

Cloud Exhibition

The 18th Venice International Architecture Biennale

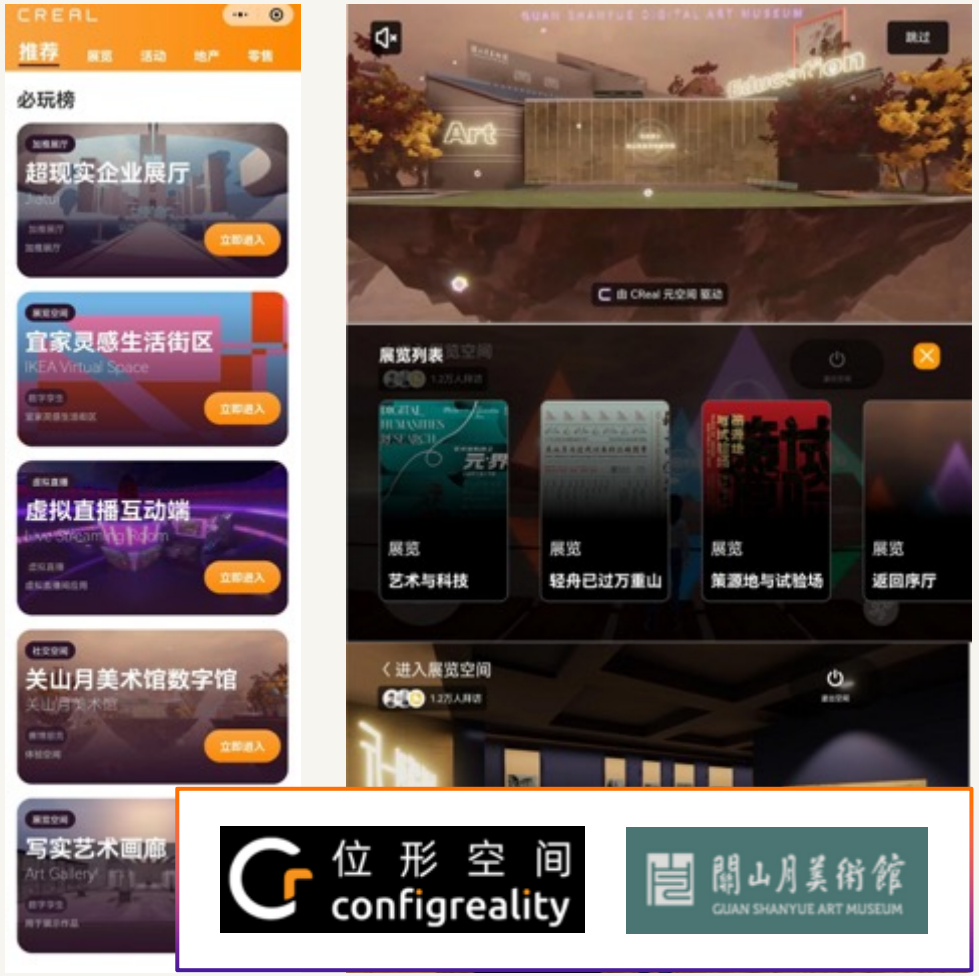
LA BIENNALE DI VENEZIA

The 9th Bi–City Biennale of Urbanism\Architecture



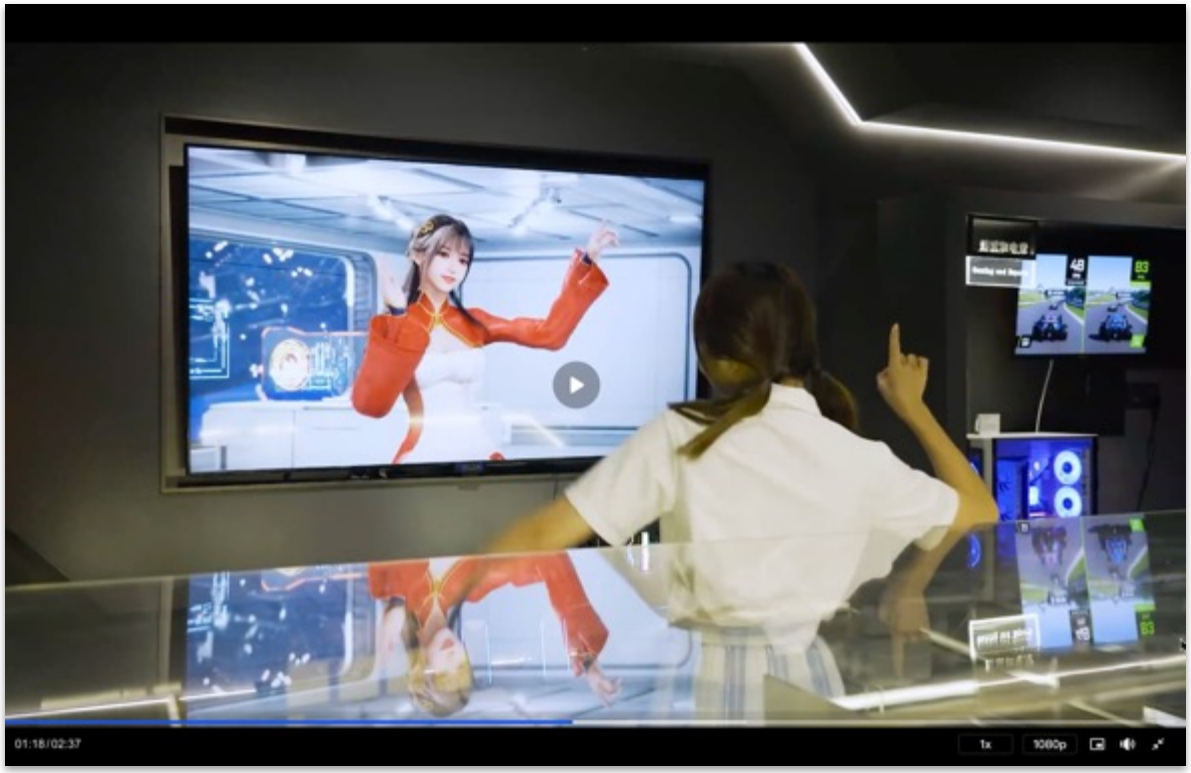
bitgreaLm 彼岸科技 CDS 首都在线

Metaverse Art Gallery



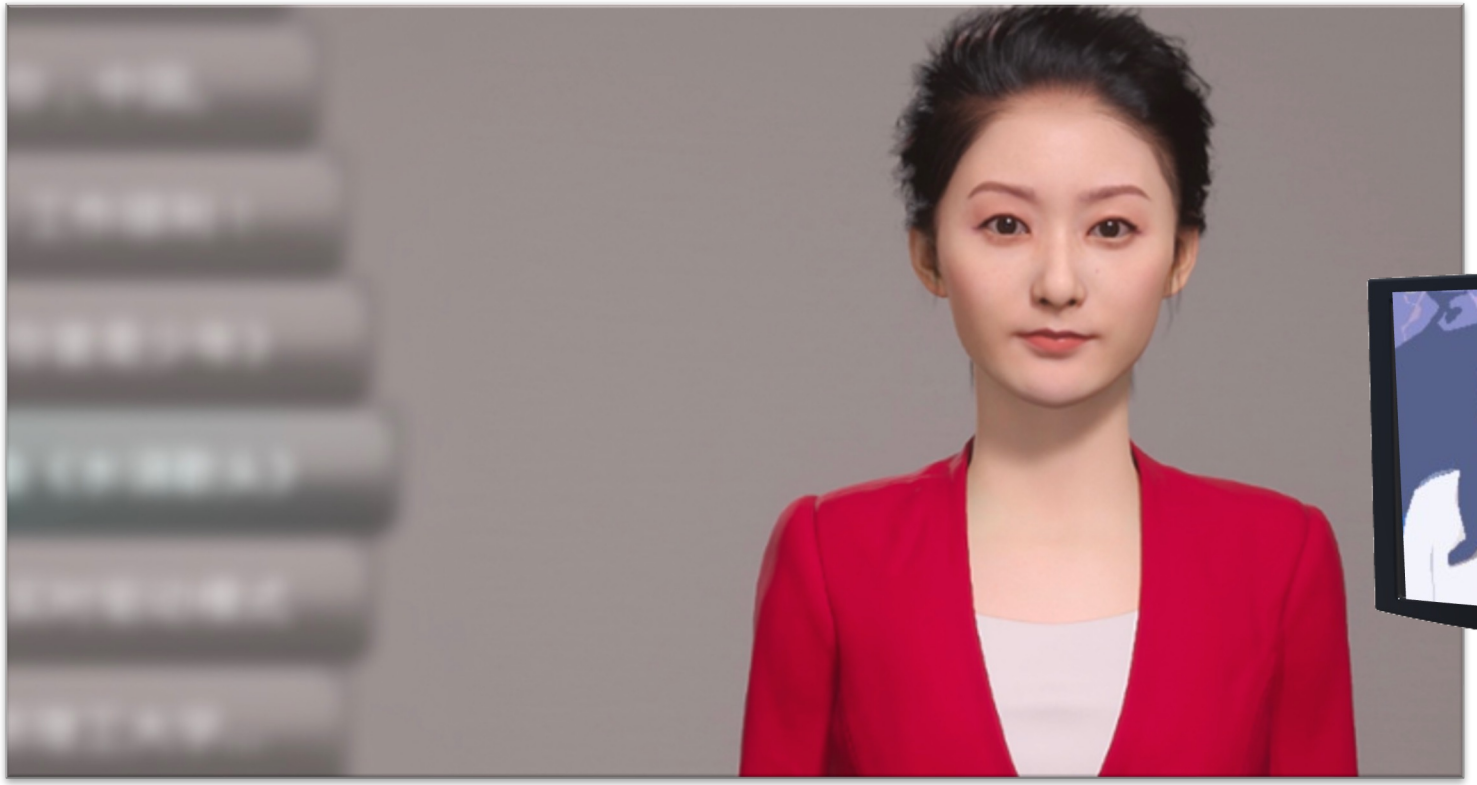
AI-Powered Interactive Digital Human

Ultra-realistic Digital Employees



AI-Powered Interactive Digital Human

Sign Language Host In News & Media



数字栩生

Metaverse Event: Interactive Gaming Experience

Multi-User Interactive Products and Metaverse Gaming Experience

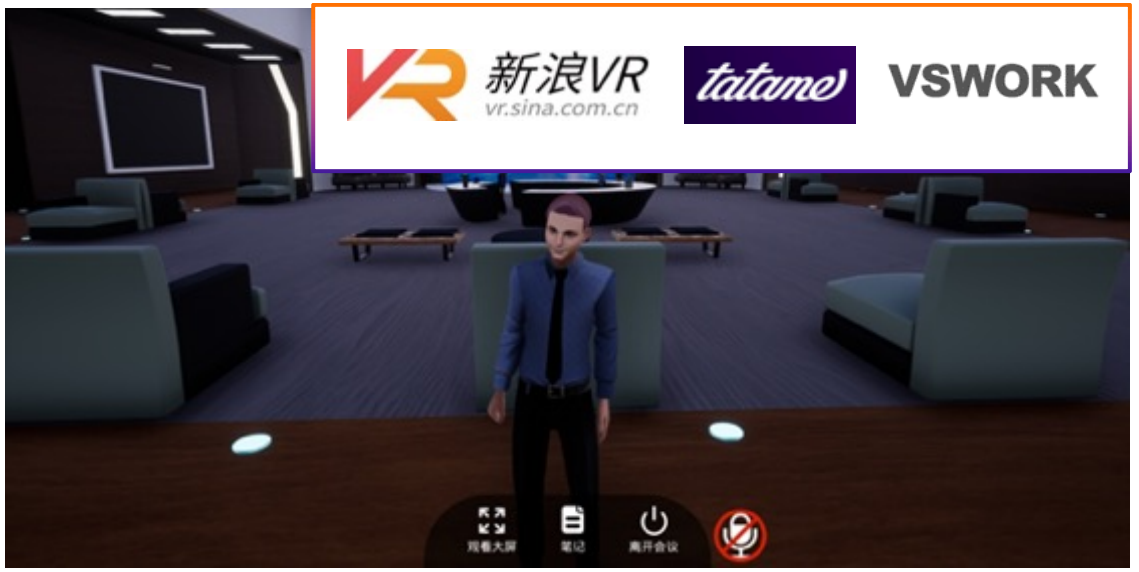
The 19th Asian Games Hangzhou 2023

CMG 中央广播电视总台 CCTV CNR CRI CGTN

Metaverse Summits / Forums

Lightweight Cross-Platform For Metaverse Summits / Forums

- ✓ High-immersion, real-time interactive XR experiences to overcome time and space constraints, uniting users in the Metaverse and fostering interconnectedness.
- ✓ Comprehensive screen coverage across communication channels, seamlessly connecting participants to the Metaverse and transforming online participation into an "on-site" experience.



3D XR
EXCHANGING AS-A-SERVICE
ParaHere 3D Asset Transaction and Circulation Platform
Built on Lark Network

3D XR EXCHANGING AS-A-SERVICE

3D Asset Casting & Ownership Verification

NFT Authorization & Copyright Protection.

Multi Blockchain Network

Arbitrum, Polygon, Solan...

On-chain Authentication / Tracking & Off-chain Operation

Asset Encryption & Privacy Protection

ParaHere - 3D Asset Transaction & Circulation Platform

ParaLab

ParaHere

Smart Contract

Token ERC20/721/1155...

Lark Network
Decentralized Rendering Network

Networking

Discovery

RLPx

ETH
Sub-Protocol

Storage

World State

Trie Storage

Block Chain

Execution Engine

Transaction
Pool

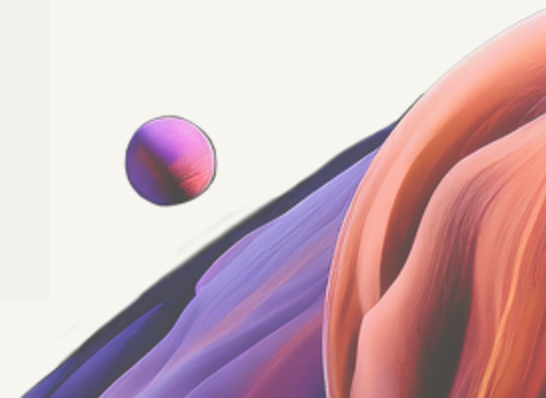
Block
Validator

EVM

WebSDK

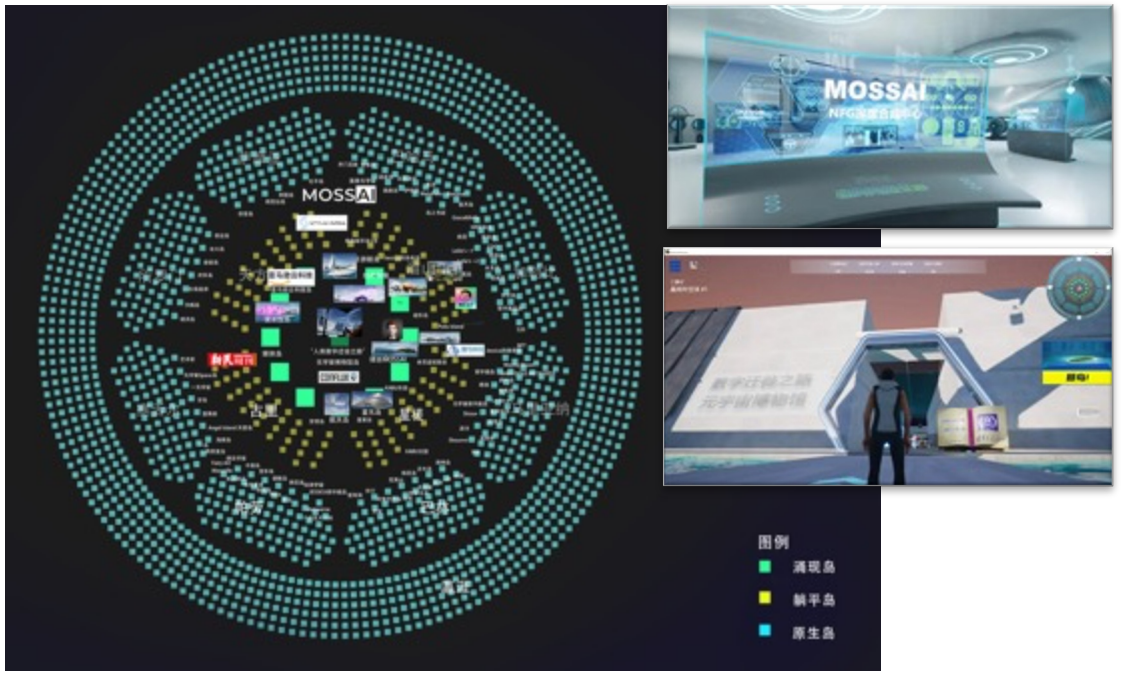
UE/Unity
Plug-in

JSON-RPC



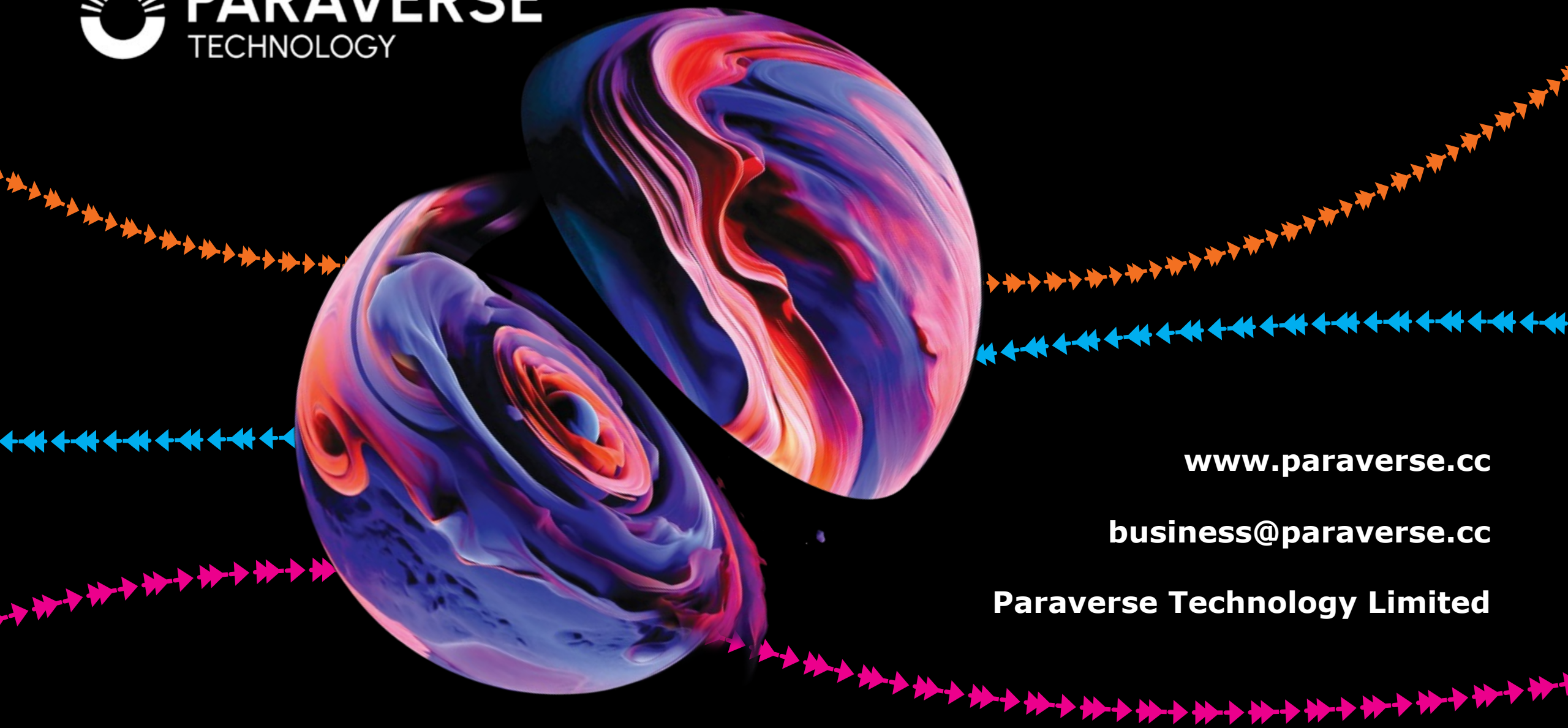
The First Web3 Cloud Rendering Protocol

The **"MOSSAI Protocol"** is the first Web3 Cloud Rendering Protocol specifically designed For Metaverse and AAA Games. The Open Metaverse Generative Framework (OMGF, Open Metaverse Generative Framework), based on trusted data and generative AI, generated the First Web3 Metaverse "MOSSAI Protocol".



莫塞元宇宙 aws
MOSSAI META

PARAVERSE
TECHNOLOGY



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Paraverse Technology Limited